

Form PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
UF-221C1XC1SERIAL NO.
09/662,254

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S): Richard W. Moyer, Yi Li, Alison L. Bawden

FILING DATE
September 14, 2000GROUP ART UNIT
1645

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	5	7 2 1 3 5 2	2/24/98	Moyer et al.	536	23.2	
AB	5	7 5 3 2 5 8	5/19/98	Schreier et al.	424	450	
AC							
AD							
AE							
AF							
AG							

RECEIVED

FEB 02 2001

TECH CENTER 1600 2900

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AH	9	4 1 3 8 1 2	6/23/94	PCT			
AI	9	8 5 0 5 7 1	11/12/98	PCT			
AJ							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AK		Afonso, C.L., E.R. Tulman, Z. Lu, E. Oma, G.F. Kutish, and D.L. Rock [1999] "The genome of <i>Melanoplus sanguinipes</i> Entomopoxvirus" <i>J. Virol.</i> 73:533-552.
AL		Arif, B. M. and Kurstak, E. [1991]. The Entomopoxviruses. In "Viruses of Invertebrates," E. Kurstak, Ed., pp. 179-195. Marcel Dekker, Inc., New York
AM		Bawden, A. L., Li, Y., Glassberg, K., and Moyer, R. W. [2000] Entomopoxvirus Vectors. In "Viral Vectors: Basic Science and Gene Therapy," pg. 341-355, A. Cid-Arregui, Ed., Eaton Publishing, Natick, MA (In Press).
AN		Bawden, Alison L., Kathryn J. Glassberg, James Diggans et al. (2000) "Complete Genomic Sequence of the <i>Amsacta moorei</i> Entomopoxvirus: Analysis and Comparison with Other Poxviruses" <i>Virology</i> 274:120-139.
AO		Berns, Kenneth I. and Roy A. Bohnzky (1987) "Adeno-Associated Viruses: An Update" <i>Adv. Virus Res.</i> 32:243-306.
AP		Fernon, C.A., A.P. Vera, R. Crnov, J. Lai-Fook, R.J. Osborne, and D.J. Dall [1995] "Replication of <i>Heliothis armigera</i> entomopoxvirus in vitro" <i>J. Invertebr. Pathol.</i> 66:216-223.
AQ		Gauthier, Laurent Francois Cousserans, Jean Claude Veyrunes, Max Bergoin (1995) "The <i>Melolontha melolontha</i> Entomopoxvirus (MmEPV) Fusolin Is Related To The Fusolins Of Lepidopteran EPVs And To The 37K Baculovirus Glycoprotein" <i>Virology</i> 208:427-436.
AR		Goebel, S. J., Johnson, G. P., Perkus, M. E., Davis, S. W., Winslow, J. P., and Paoletti, E. [1990] "The complete DNA sequence of vaccinia virus" <i>Virology</i> 179, 247-66, 517-63.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
UF-221C1XC1SERIAL NO.
09/662,254

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S): Richard W. Moyer, Yi Li, Alison L. Bawden

FILING DATE
September 14, 2000GROUP ART UNIT
1645

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						RECEIVED
	AB						
	AC						FEB 02 2001
	AD						
	AE						TECH CENTER 1645
	AF						
	AG						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AH						
	AI						
	AJ						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AK	Gooding, L. R. [1992] "Virus proteins that counteract host immune defenses" <i>Cell</i> 71:5-7.
AL	Goodwin, R. H., J. R. Adams and M. Shapiro [1990] "Replication of the entomopoxvirus from <i>Amsacta moorei</i> in serum-free cultures of a gypsy moth cell line" <i>J. Invertebr. Pathol.</i> 56:190-205.
AM	Granados, R.R. (1981) "Entomopoxvirus infections in insects, In: Pathogenesis of invertebrate Microbial Disease, pp 102-126, Davidson, E.W. (ed.) New Jersey, Allanheld Totowa.
AN	Gruidl, M. E., Hall, R. L., and Moyer, R. W. [1992] "Mapping and molecular characterization of a functional thymidine kinase from <i>Amsacta moorei</i> entomopoxvirus" <i>Virology</i> 186:507-516.
AO	Hall, R. L. and Hink, W. F. [1990] "Physical mapping and field inversion gel electrophoresis of <i>Amsacta moorei</i> entomopoxvirus DNA" <i>Arch. Virol.</i> 110:77-90.
AP	Hall, R.L. and R.W. Moyer [1991] "Identification, cloning, and sequencing of a fragment of <i>Amsacta moorei</i> entomopoxvirus DNA containing the spheroidin gene and three vaccinia virus-related open reading frames" <i>J. Virol.</i> 65:6516-6527.
AQ	Hall, R. L. and Moyer, R. W. [1993] "Identification of an <i>Amsacta</i> spheroidin-like protein within the occlusion bodies of <i>Choristoneura</i> entomopoxviruses" <i>Virology</i> 192:179-187.
AR	Hall, R. L., Li, Y., Feller, J. A., and Moyer, R. W. [1996] "The <i>Amsacta moorei</i> entomopoxvirus spheroidin gene is improperly transcribed in vertebrate poxviruses" <i>Virology</i> 224:427-436.

EXAMINER

DATE CONSIDERED

8/14/01

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. UF-221C1XC1	SERIAL NO. 09/662,254
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANT(S): Richard W. Moyer, Yi Li, Alison L. Bawden	
		FILING DATE September 14, 2000	GROUP ART UNIT 1645

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	AH							
	AI							
	AJ							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AK	Kaplitt, Michael G., Paola Leone, Richard J. Samulski, Xiao Xiao, Donald W. Pfaff, Karen L. O'Malley, Matthew J. During (1994) "Long-term gene expression and phenotypic correction using adeno-associated virus vectors in the mammalian brain" <i>Nat. Genet.</i> 8:148-154.
AL	Kotin, Robert M., R. Michael Linden, Kenneth I. Berns (1992) "Characterization of a preferred site on human chromosome 19q for integration of adeno-associated virus DNA by non-homologous recombination" <i>The EMBO Journal</i> 11(13):5071-5078.
AM	Langridge, W.H.R. (1983) "Detection of <i>Amsacta moorei</i> Entomopoxvirus and Vaccinia Virus Proteins in Cell Cultures Restrictive for Poxvirus Multiplication" <i>Journal of Invertebrate Pathology</i> 42:77-82.
AN	Li, X., Barrett, J. W., Yuen, L., and Arif, B. M. [1997] "Cloning, sequencing and transcriptional analysis of the Choristoneura fumiferana entomopoxvirus spheroidin gene" <i>Virus Res.</i> 47:143-154.
AO	Li, Yi, Richard L. Hall, Richard W. Moyer (Dec. 1997) "Transient, Nonlethal Expression of Genes in Vertebrate Cells by Recombinant Entomopoxviruses" <i>Journal of Virology</i> 71(12):9557-9562.
AP	Li, Y., R.L. Hall, S.L. Yuan, R.W. Moyer (1998) "High-level expression of <i>Amsacta moorei</i> entomopoxvirus <i>spheroidin</i> depends on sequences within the gene" <i>Journal of General Virology</i> 79:613-622.
AQ	Lytvyn, V., Y. Fortin, M. Banville, B. Arif, and C. Richardson [1992] "Comparison of the thymidine kinase genes from three entomopoxviruses" <i>J. Gen. Virol.</i> 73:3235-3240.
AR	Moyer, R.W. [1994] Entomopoxviruses, p. 392-397, <i>Encyclopedia of Virology</i> , R.G. Webster and A. Granoff (eds.), Academic Press Ltd, London).

EXAMINER <i>DW Bawden</i>	DATE CONSIDERED <i>8/14/01</i>
------------------------------	-----------------------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
UF-221C1XC1SERIAL NO.
09/662,254

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S): Richard W. Moyer, Yi Li, Alison L. Bawden

FILING DATE
September 14, 2000GROUP ART UNIT
1645

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AH						
	AI						
	AJ						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AK	Nienhuis, Arthur W., Christopher Edward Walsh, Johnson Liu (1993) "Viruses as Therapeutic Gene Transfer Vectors" In: N.S. Young (ed.) Viruses and Bone Marrow, Marcel Decker, New York, pp 353-414.
AL	Palmer, Christopher, Davin P. Miller, Susan A. Marlow <i>et al.</i> (1995) "Genetic modification of an entomopoxvirus: deletion of the spheroidin gene does not affect virus replication <i>in vitro</i> " <i>Journal of General Virology</i> 76:15-23.
AM	Ross, Gail, Robert Erickson, Debra Knorr, <i>et al.</i> (Sept, 1996) "Gene Therapy in the United States: A Five-Year Status Report" <i>Human Gene Therapy</i> 7:1781-1790.
AN	Smith, G. L., Chan, Y. S., and Howard, S. T. [1991] "Nucleotide sequence of 42 kbp of vaccinia virus strain WR from near the right inverted terminal repeat" <i>J. Gen. Virol.</i> 72:1349-1376
AO	Smith, G. L. [2000] "Secreted poxvirus proteins that interact with the immune system" <i>Effects of Microbes on the Immune System</i> 491-507).
AP	Sriskantha, A., Osborne, R. J., and Dall, D. J. [1997] "Mapping of the <i>Heliothis armigera</i> entomopoxvirus (HaEPV) genome, and analysis of genes encoding the HaEPV spheroidin and nucleoside triphosphate phosphohydrolase I proteins" <i>J Gen Virol</i> 78:3115-3123.
AQ	Verma, Inder M. and Nikunj Somia (1997) "Gene Therapy — promises, problems and prospects" <i>Nature</i> 389:239-242.
AR	Winter, J., R.L. Hall, and R.W. Moyer [1995] "The effect of inhibitors on the growth of the entomopoxvirus from <i>Amsacta moorei</i> in <i>Lymantria dispar</i> (gypsy moth) cells" <i>Virology</i> 211:462-473.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. UF-221C1XC1	SERIAL NO. 09/662,254
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANT(S): Richard W. Moyer, Yi Li, Alison L. Bawden	
		FILING DATE September 14, 2000	GROUP ART UNIT 1645

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA						
AB						
AC						
AD						
AE						
AF						
AG						

RECEIVED

FEB 22 2001

TECH CENTER 1600/2900

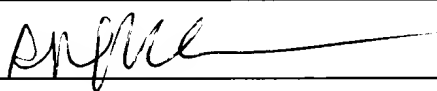
FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AH					
AI					
AJ					

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AK	Geoffrey L. Smith (March 1994) "Virus strategies for evasion of the host response to infection" <i>Trends in Microbiology</i> 2(3):81-88.
AL	Mustafa, Amir and Leonard Yuen (1991) "Identification and sequencing of the <i>Choristoneura biennis</i> entomopoxvirus DNA polymerase gene" <i>J. DNA Sequencing and Mapping</i> 2:39-45.
AM	
AN	
AO	
AP	
AQ	
AR	

EXAMINER



DATE CONSIDERED

8/14/01

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.